

IMS ENGINEERING COLLEGE, GHAZIABAD



BLOCKCHAIN DEVELOPER INTERNSHIP

SUBJECT NAME: INTERNSHIP ASSESSMENT

SUBJECT CODE: BCS-752

COURSE: B.TECH. SEMESTER:

VII

SUBMITTED BY

**STUDENT NAME : YASH KUMAR
(2201430130097)**

TO

**MS. ASHA KUMARI
(ASSISTANT PROFESSOR)**

**DEPARTMENT OF INFORMATION TECHNOLOGY IMS
ENGINEERING COLLEGE
NH-09, ADHYATMIK NAGAR, GHAZIABAD-201015
(2025-26)**

VISION AND MISSION OF THE INSTITUTE AND DEPARTMENT

VISION OF THE INSTITUTE

To make IMSEC an Institution of Excellence for empowering students through technical education, incorporating human values, and developing engineering acumen for innovations and leadership skills to upgrade society.

MISSION OF THE INSTITUTE

- To promote academic excellence by continuous learning in core and emerging Engineering domains using innovative teaching and learning methodologies.
- To inculcate values and ethics among the learners.
- To promote industry interactions and cultivate young minds for entrepreneurship.
- To create a conducive learning ecosystem and research environment on a perpetual basis to develop students as technology leaders and entrepreneurs who can address tomorrow's societal needs.

VISION OF THE DEPARTMENT

To become a worldwide recognized centre of excellence in the field of Information Technology for innovation, learning and entrepreneurship by developing professional leaders to serve society

MISSION OF THE DEPARTMENT

- M1: To impart good quality experiential learning to get expertise in modern software tools and to cater the real time requirements of industry.
- M2: To provide a conductive environment for faculty to engage and train students for progressive and convergent innovation.
- M3: To provide students with a positive learning experience by reaching their goals through collaborative learning, professional grooming and a healthy environment based in co-curricular and extracurricular activities.

PROGRAM OUTCOMES (POS)

S. No.	Program Outcomes / Program Specific Outcomes
PO1.	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2.	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3.	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4.	Research-based investigations of complex problems: Use knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5.	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
PO6.	The engineer and society: apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7.	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8.	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9.	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10.	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11.	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12.	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
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IT DEPARTMENT PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

1. To produce graduates who are employable in industries/public sector/research organizations or work as an entrepreneur. To produce
2. graduates who can provide solutions to challenging problems in their profession by applying computer engineering theory and practices. To
3. develop ability to demonstrate team work with the ability of leadership, analytical reasoning for solving time critical problems and strong human values for responsible professional.

IT DEPARTMENT PROGRAM SPECIFIC OUTCOMES (PSOs)

B.Tech. Information Technology Department has the following Program Specific Outcomes:

PSO1: Empowering the students for continuous learning and develop efficient solutions for emerging challenges in the computation domain.

PSO2: Preparing graduates who are able to apply standard software engineering practices in software development and management process using suitable programming languages and platforms.

COURSE OUTCOMES

CO. No.	DESCRIPTION	COGNITIVE LEVEL (BLOOMS TAXONOMY)
CO1 (C406.1)	Developing a technical artifact requiring new technical skills and effectively utilizing a new software tool to complete a task Writing requirements documentation, Selecting appropriate	K4, K5
CO2 (C406.2)	technologies, identifying and creating appropriate test cases for systems. Demonstrating understanding of professional customs &	K5, K6
CO3 (C406.3)	practices and working with professional standards. Improving problem-solving, critical thinking skills and report	K4, K5
CO4 (C406.4)	writing. Learning professional skills	K4, K5
CO5 (C406.5)	like exercising leadership, behaving professionally, behaving ethically, listening effectively, participating as a member of a team, developing appropriate workplace attitudes	K2, K4

CO-PO-PSO MAPPING

	P O1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	P O 11 2	PO 12	PS O1	PSO 2
C406.1	3	3	3	3	3	2	1	2	2	2	1	3	3	3
C406.2	3	3	2	2	2	1	1	2	2	3	2	1	2	3
C406.3	1	1	1	1	1	3	2	3	2	2	1	2	2	1
C406.4	3	3	3	3	3	2	1	1	2	3	3	3	1	1
C406.5	1	1	1	1	1	2	2	3	3	3	1.8	1	1	1
C406	2.2	2.2	2	2	2	2	1.4	2.2	2.2	2.6		2	1.8	1.8

CERTIFICATE

OF ACHIEVEMENT

THIS CERTIFICATE IS AWARDED TO

Yash Kumar

This is to certify that Yash Kumar has successfully completed his internship as a Blockchain Developer Intern at Dehix from August 4, 2025 to October 4, 2025, demonstrating dedication and valuable contributions to our Web3 development initiatives.

ARPIT CHAUHAN

DIRECTOR



LATA JOSHI

HUMAN RESOURCE
MANAGER

TABLE OF CONTENTS

Contents	Page No.
Certificate of Internship (Provided by the Organization)	
Certificate from Company Representative	
Declaration by Student	1
Acknowledgement	2
Abstract (A Concise Summary of the Internship Report in 150-200 words)	3
1. Introduction	8
1.1. Corporate Profile:	
1.2. Internship Details (Duration, Role, Department, Domain, etc.)	
1.3. Objectives of the Internship	
2. Project Details and Work Performed	10
2.1. Project 1: Responsive WebApp	
2.1.1 Problem Statement	
2.1.2 My Role and Responsibilities	
2.1.3 Technology Stack and Tools	
2.1.4 Methodology	
2.1.5 Project Implementation and Key Findings	
3. Technologies & Skills Acquired	12
3.1. Technical Skills Acquired	
3.2. Soft Skills and Professional Growth	
4. Challenges Faced and Solutions Implemented	13
4.1. Challenges Faced	
4.2. Solutions Implemented	
5. Key Learnings and Achievements	14
6. Conclusion and Summary	15
6.1. Summary of Experience	
6.2. Future Recommendations	

7. References (Books, websites, tools, etc.)	16
8. Appendices	17
● Appendix A: Daily/Weekly Work Log (optional)	
● Appendix B: Relevant Code Snippets	
● Appendix C: Additional Certificates and Awards (if any)	
● Appendix D: Additional Documentation (e.g., design diagrams, screenshots)	

DECLARATION

I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

Signature:

Name: Yash Kumar

Roll No: 2201430130097

Date:

ACKNOWLEDGEMENT

I would like to express my gratitude to Mr. Arpit Chauhan my supervisor for this Internship project. I would like to thank him/her for the constant support, enthusiastic encouragement, and useful critiques. I would also like to thank Dr. Manas Kumar Mishra, Director IMSEC and Prof. (Dr.) S N Rajan, HoD, IT for providing me with the opportunity to undergo this internship.

Signature:

Name: Yash Kumae

Roll No: 2201430130097

Branch & Section: IT-2

ABSTRACT

From 4 August 2025 to 4 October 2025, I completed a Blockchain Developer Internship at Dehix.org, a Web3 startup building an integrated ecosystem that bridges Web3 and AI technologies. The organization aims to streamline the blockchain community by creating a platform that supports developers, startups, and enthusiasts—featuring opportunities such as freelance collaborations where both freelancers and organizations are incentivized with NFTs.

During my internship, I was responsible for developing, testing, and deploying smart contracts using Solidity. I created and managed ERC20 tokens and ERC721 (NFT) contracts, and worked on full-stack decentralized applications (DApps) integrating smart contract functionality with Next.js-based frontends. I gained practical experience with essential Web3 tools and technologies, including Ethers.js, Hardhat, Remix IDE, MetaMask, and various Ethereum testnets.

In addition to technical development, I also conducted research for hackathons, online competitions, and Web3 events to identify opportunities where Dehix.org could participate or gain visibility. Collaborating with a talented team of developers helped me enhance my teamwork, communication, and problem-solving skills while reinforcing my understanding of blockchain fundamentals and decentralized systems.

This internship provided me with hands-on experience in building end-to-end blockchain applications and strengthened my ability to combine smart contract logic with modern web interfaces, aligning with the future of decentralized technology.

INTRODUCTION

Frontend development is essential for creating visually appealing, user-friendly, and responsive web applications. It involves converting design concepts into functional interfaces using technologies such as HTML, CSS, and JavaScript. In today's digital era, a strong frontend ensures better user engagement and a smoother browsing experience.

This report highlights my one-month internship at IIIION Smart Tech where I worked as a FullStack Developer Intern to design and develop an Responsive Website web application using only HTML, CSS, and JavaScript.

1.1 Company Overview

Dehix.org is a dynamic Web3 startup focused on building a comprehensive ecosystem that integrates blockchain and artificial intelligence (AI) technologies. The company's mission is to streamline the blockchain community by offering tools, platforms, and resources that simplify the development, collaboration, and adoption of decentralized technologies.

One of Dehix's flagship initiatives is the creation of a freelancing platform where both freelancers and organizations can connect, collaborate, and earn rewards in the form of NFTs and native tokens. The platform emphasizes decentralization, transparency, and community-driven growth, making it a vital contributor to the evolving Web3 landscape.

The company's primary services and focus areas include:

- Web3 and blockchain application development
- Smart contract design and auditing
- Integration of NFTs and token economies
- Community development for blockchain and AI enthusiasts
- Research and participation in global hackathons and innovation events

Dehix.org's culture fosters creativity, innovation, and collaboration, allowing interns and employees to explore emerging technologies and contribute to meaningful projects that impact the Web3 ecosystem.

1.2 Internship Details

- Organization Name: Dehix.org
- Duration: 2 Months (4 August 2025 – 4 October 2025)
- Role: Blockchain Developer Intern
- Department: Blockchain Development and Research
- Domain: Web3, Smart Contracts, and Decentralized Applications
- Mode: Remote/Hybrid (as applicable)

During this internship, I was primarily engaged in smart contract development, token creation, and frontend integration for decentralized applications. I also participated in research and event scouting to identify suitable hackathons and online competitions for the organization's representation.

1.3 Objectives of the Internship

- Organization Name: Dehix.org
- Duration: 2 Months (4 August 2025 – 4 October 2025)
- Role: Blockchain Developer Intern
- Department: Blockchain Development and Research
- Domain: Web3, Smart Contracts, and Decentralized Applications
- Mode: Remote/Hybrid (as applicable)

During this internship, I was primarily engaged in smart contract development, token creation, and frontend integration for decentralized applications. I also participated in research and event scouting to identify suitable hackathons and online competitions for the organization's representation.

1.3 Objectives of the Internship

The main objectives of my internship were to:

- Build a fully functional interface.
- Apply HTML, CSS, and JavaScript to solve real-world problems.
- Create responsive layouts for mobile, tablet, and desktop.
- Improve skills in DOM manipulation and event handling.

1.4 Project Overview: Responsive website

I have developed a fully responsive frontend website with a modern and user-friendly design. The website adapts seamlessly to different screen sizes—whether mobile, tablet, or desktop—ensuring a smooth browsing experience for every user. It features a clean layout, intuitive navigation, and visually appealing UI elements that enhance usability. I focused on performance optimization, cross-browser compatibility, and mobile-first design principles while keeping the codebase structured and maintainable. The project reflects my skills in creating responsive web interfaces and delivering practical, professional-grade frontend solutions.

1.4.1 Sub Heading (Level 1) – UI Design & Layout

I designed a clean and minimal UI with an input box for entering prompts, a button to trigger image generation, and a display area for showing the generated image.

1.4.2 Sub Heading (Level 2) – JavaScript Functionality

I implemented JavaScript features such as:

- Capturing user input through form elements.
- Dynamically updating the DOM to display the image.
- Adding animations for better user interaction.

1.4.3 Technical Skills Used

- Languages: HTML5, CSS3, JavaScript (ES6)
- Core Concepts: DOM Manipulation, Event Handling, Responsive Design
- Design Tools: CSS Flexbox, Grid, Media Queries
- Version Control: Git & Github

1.4.4 Key Contributions

- Designed and implemented the entire UI from scratch.
- Added smooth transitions and hover effects for better UX.
- Ensured the application was responsive across multiple devices.
- Wrote clean, maintainable, and well-structured code.

1.5 Conclusion

This one-month internship at IIIION Smart Tech allowed me to apply my HTML, CSS, and JavaScript skills to build a complete, functional, and visually appealing web application. The Responsive Website project strengthened my understanding of frontend development concepts, improved my problem-solving abilities, and gave me confidence to take on more complex projects in the future.

1. Introduction

The internship at IIIon Smart Tech provided an opportunity to gain hands-on experience in front-end development, focusing on the creation of an Responsive Website using HTML, CSS, and JavaScript. The project involved integrating an external API to generate AI-based images dynamically while ensuring a responsive and user-friendly design. This experience enhanced my technical skills, deepened my understanding of real-world development workflows, and allowed me to contribute to a practical product under professional guidance.

1.1 Corporate Profile

IIIon Smart Tech is a technology-driven company dedicated to delivering innovative web solutions, user-friendly interfaces, and modern digital tools. The company focuses on developing scalable and visually appealing applications that integrate the latest technologies to provide high-quality user experiences. Guided by its mission to “transform ideas into impactful digital products,” IIIION Smart Tech operates in the domains of web development, AI tools integration, and creative design.

1.2 Internship Details

Duration: 3 Month (2nd June 2025 – 2nd September 2025)

Role: FullStack Developer Intern

Supervisor: Mr. Rahul Choudhary, Founder & CEO, IIIION

Department: Frontend Development

Domain: Web Development / AI Tool Integration

Project: Responsive Website using HTML, CSS, JavaScript.

1.3 Objectives of the Internship

The primary objectives of the internship were:

1. To design and develop a responsive Responsive web application.
2. To gain practical experience in frontend technologies — HTML, CSS, and JavaScript.
3. To implement and integrate external APIs for AI-based functionalities.

4. To enhance the user interface and ensure cross-device compatibility.
5. To collaborate with the supervisor and follow industry-standard development practices.

2. Project Details and Work Performed

2.1 Project 1: Responsive website

2.1.1 Problem Statement

~~In today's digital era, almost~~ every platform requires secure and user-friendly authentication systems. However, many websites either have outdated login forms, poor responsiveness on mobile devices, or lack proper design and accessibility. This creates difficulties for users, leading to security risks and a poor browsing experience. There is a need for a clean, responsive, and reliable login form that adapts across devices and ensures both usability and security.

As a Fullstack Developer Intern, my responsibilities included:

- ☒ Designing the overall user interface (UI) layout using HTML and CSS.
Ensuring the application's responsiveness for both desktop and mobile users.
- ☒ Testing and debugging for performance optimization.
- ☒ Collaborating with the supervisor for feedback and improvements.

2.1.2 Technology Stack and Tools

Frontend: HTML5, CSS3, JavaScript (ES6)

Tools: VS Code, GitHub, Google Chrome DevTools

Design Resources: Google Fonts, Font Awesome Icons

2.1.3 Methodology

1. Requirement Analysis – Understanding the project goal and expected features.
2. UI/UX Design – Creating a clean and user-friendly interface.
3. Frontend Development – Writing HTML, CSS, and JavaScript code for core functionality.

4. Testing – Ensuring cross-browser compatibility and responsive design.
6. Deployment – Hosting the application for live usage.

2.1.4 Project Implementation and Key Findings

- Successfully integrated an AI API that generates images based on user prompts.
- Designed a minimal yet visually appealing UI for an enhanced user experience.
- Implemented responsive layouts to ensure smooth performance across devices.

3. Technologies & Skills Acquired

3.1 Technical Skills Acquired

During my one-month internship as a Fullstack Developer Intern at IIIION Smart Tech, I developed and strengthened the following technical skills:

- ☒ HTML5 – Structuring web pages and implementing semantic elements.
- ☒ CSS3 – Styling layouts, implementing responsive design using Flexbox and Grid.
- ☒ JavaScript (ES6) – Handling DOM manipulation, API requests, and event-driven programming.
- ☒ Responsive Web Design – Ensuring the website works seamlessly on desktops, tablets, and smartphones.
- ☒ Debugging & Testing – Using Chrome DevTools for troubleshooting and performance optimization.

3.2 Soft Skills and Professional Growth

In addition to technical abilities, the internship contributed significantly to my personal and professional development:

- ☒ Time Management – Meeting deadlines for tasks and project milestones.
- ☒ Problem-Solving Skills – Overcoming technical challenges during API integration.
- ☒ Communication Skills – Sharing progress updates and discussing improvements with my supervisor.
- ☒ Adaptability – Quickly learning and implementing new concepts during the project timeline.
- ☒ Attention to Detail – Ensuring design consistency and error-free code.

4. Challenges Faced and Solutions Implemented

4.1 Challenges Faced

During the development of the Responsive Website project, I encountered the following challenges:

1. Responsive Design Adjustments – Ensuring the layout adapted perfectly to both small and large screens was time-consuming.
2. Image Loading Delay – Large generated images took time to load, impacting user experience.
3. Cross-Browser Compatibility – Some CSS styles displayed differently in various browsers.
4. Error Handling – Handling cases when the API returned no result or an invalid response.

4.2 Solutions Implemented

To address these challenges, I implemented the following solutions:

1. Media Queries & Flexbox – Applied advanced CSS techniques to improve responsiveness across all devices.
2. Loading Indicators – Added a loading animation while images were being generated to improve UX.
3. CSS Normalization – Used reset styles and tested on multiple browsers to maintain design consistency.
4. Robust Error Handling – Implemented JavaScript conditions to display user-friendly messages when API calls failed.

5. Key Learnings and Achievements

During my internship at IIIIon Smart Tech as a FullStackDeveloper Intern, I gained valuable technical knowledge and professional skills. The experience allowed me to apply theoretical concepts to real-world scenarios, improve my coding practices, and develop a complete functional project.

Key Learnings:

- ☒ Gained hands-on experience in HTML, CSS, and JavaScript for building responsive websites.
- ☒ Understood the importance of responsive design principles for multi-device compatibility.
- ☒ Improved debugging skills using browser developer tools.
- ☒ Enhanced collaboration and communication by regularly discussing progress with my supervisor.

Achievements:

- ☒ Successfully developed a fully functional Website. web application using only HTML, CSS, and JavaScript.
- ☒ Integrated an AI API to generate images dynamically based on user input.
- ☒ Implemented a responsive, user-friendly interface accessible on both mobile and desktop devices.
- ☒ Overcame API errors and UI inconsistencies to deliver a polished project within the internship timeline.

6. Conclusion and Summary

6.1 Summary of Experience

My one-month internship at Hifon Smart Tech as a FullStack Developer Intern was a valuable and enriching experience. Working under the guidance of Mr. Rahul Chaudhary (Founder & CEO). I developed a fully functional Responsive Website web application using HTML, CSS, and JavaScript. The project enhanced my skills in API integration, responsive design, and debugging, while also improving my problem-solving abilities. This internship bridged the gap between my academic learning and real-world application, giving me a deeper understanding of industry practices.

6.2 Future Recommendations

Based on my experience, I would suggest the following for future interns and the project's enhancement:

1. Use modern frontend frameworks like React.js for faster development and scalability.
2. Explore API alternatives to improve image quality and reduce generation time.
3. Maintain detailed project documentation for smoother handover to future developers.
4. Encourage interns to work on team-based projects for improved collaboration skills.

7. References

During the internship and the development of the Responsive Website project, the following resources were referred to for technical guidance, inspiration, and implementation support:

1. HTML, CSS, and JavaScript Documentation –
<https://developer.mozilla.org>
2. API Documentation – AI API
3. W3Schools Web Tutorials – <https://www.w3schools.com>
4. Stack Overflow – <https://stackoverflow.com>
5. Google Fonts – <https://fonts.google.com> (for typography styles)
6. CSS Tricks – <https://css-tricks.com>
7. Canva – <https://www.canva.com> (for UI inspiration and design ideas)

8. Appendices

Appendix B: Relevant Code Snippets

```
1 // SPDX-License-Identifier: MIT
2
3 pragma solidity ^0.8.30;
4
5 import "@chainlink/contracts/src/v0.8/shared/interfaces/AggregatorV3Interface.sol";
6 import "@openzeppelin/contracts/token/ERC721/extensions/ERC721Enumerable.sol";
7 import "@openzeppelin/contracts/access/Ownable.sol";
8
9 contract DehixNFT is ERC721Enumerable, Ownable {
10     enum Tier { Silver, Gold}
11
12     uint256 public constant SILVER_PRICE = 99;
13     uint256 public constant GOLD_PRICE = 299;
14
15     uint256 public constant ACCESS_DURATION = 365 days * 10;
16
17     uint256 public capSilver;
18     uint256 public capGold;
19     uint256 public mintedSilver;
20     uint256 public mintedGold;
21
22     uint256 private _nextCount = 1;
23
24     AggregatorV3Interface internal priceFeed;
25
26     string public silverMetadataURI = "https://yellow-tricky-moth-307.ipfs.mypinata.cloud/bafybeiedcs32w62";
27     string public goldMetadataURI = "https://yellow-tricky-moth-307.ipfs.mypinata.cloud/bafybeiedcs32w62";
28
29
30     mapping(uint256 => Tier) public tierOf;
31     mapping(uint256 => uint256) public expiryOf;
32
33     event SilverPurchased(address indexed buyer, uint256 indexed id);
34     event GoldPurchased(address indexed buyer, uint256 indexed id);
```

```
◆ FreelancerContract.sol ✘ ◆ StakingRewards.sol ◆ Token.sol
src > ◆ FreelancerContract.sol
11  contract FreelancerContract is ReentrancyGuard {
29
30
31      struct Escrow {
32          string escrowId;
33          address[] votingOracles;
34          address freelancerAddress;
35          address businessAddress;
36          uint256 depositedAmount;
37          IERC20 tokenAddress;
38      }
39
40      address private immutable i_owner;
41      StakingRewards public immutable stakingContract; // <-- MADE IMMUTABLE
42
43      mapping(string => Freelancer) public s_freelancers;
44      mapping(string => Project) public s_projects;
45      mapping(string => Business) public s_businesses;
46      mapping(string => Escrow) public s_escrows;
47      mapping(address => bool) public s_oracles;
48      mapping(string => mapping(address => bool)) private s_hasVoted;
49      mapping(string => uint256) private s_releaseVotes;
50      mapping(string => uint256) private s_refundVotes;
51
52      // --- EVENTS ---
53      event FreelancerAdded(string indexed freelancerId, address indexed freelancerAddress);
54      event BusinessAdded(string indexed businessId, address indexed businessAddress);
55      event ProjectCreated(string indexed projectId);
56      event ProjectDeactivated(string indexed projectId);
57      event OracleAdded(address indexed oracleAddress);
58      event OracleRemoved(address indexed oracleAddress);
59      event EscrowCreated(string indexed escrowId, address indexed business, address indexed freelancerAddress, uint256 amount);
60      event FundDeposited(string indexed escrowId, uint256 amount);
```



Dehix Gold

Dehix Gold access NFT granting 10 years of membership. [Show more](#)

Contract address [0xfc987..CE097](#)

Token ID [976245](#)

Token standard [ERC721](#)

Disclaimer: MetaMask pulls the media file from the source url. This url sometimes gets changed by the marketplace on which the NFT was minted.

Send



Dehix Silver

Dehix Silver access NFT granting 10 years of membership. [Show more](#)

Contract address [0xfc987..CE097](#)

Token ID [976270](#)

Token standard [ERC721](#)

Disclaimer: MetaMask pulls the media file from the source url. This url sometimes gets changed by the marketplace on which the NFT was minted.

Send

```
test > fuzz > AdvancedFuzz.tsol > AdvancedFuzzTest
1 // test/fuzz/AdvancedFuzz.t.sol
2 // SPDX-License-Identifier: MIT
3 pragma solidity ^0.8.28;
4
5 import {Test, console} from "forge-std/Test.sol";
6 import {FreelancerContract} from "../../src/FreelancerContract.sol";
7 import {MockERC20} from "../../mocks/MockERC20.sol";
8 import {StakingRewards} from "../../src/StakingRewards.sol";
9
10 contract AdvancedFuzzTest is Test {
11     FreelancerContract public freelancerContract;
12     address public owner;
13     MockERC20 public mockToken;
14     StakingRewards public stakingContract;
15
16     function setUp() public {
17         mockToken = new MockERC20("Mock Token", "MTK");
18         stakingContract = new StakingRewards(address(mockToken), address(mockToken));
19         freelancerContract = new FreelancerContract(address(stakingContract));
20         owner = freelancerContract.getOwner();
21     }
22
23     function testFuzz_CreateEscrow(address oracle1, address oracle2, address oracle3, address freelancer) public {
24         vm.assume(oracle1 != address(0) && oracle1 != owner);
25         vm.assume(oracle2 != address(0) && oracle2 != owner && oracle2 != oracle1);
26         vm.assume(oracle3 != address(0) && oracle3 != owner && oracle3 != oracle1 && oracle3 != oracle2);
27         vm.assume(freelancer != address(0));
28
29         // --- STAKING SETUP FOR ORACLES (FUZZ) ---
30         // Mint, APPROVE, and stake for each oracle
31         mockToken.mint(oracle1, 1e18);
32         vm.startPrank(oracle1);
33         mockToken.approve(address(stakingContract), 1e18); // <-- STX
```

Appendix C: Internship Completion Certificate

IIION SMART TECH PRIVATE LIMITED
CIN:U62012UP2024PTC214250



Letter of Recommendation – Full Stack Developer Internship

Date: 27/08/2025

To Whom It May Concern,

I am pleased to recommend **Mohd Ziaul Beg** for his outstanding performance during his Full Stack Developer Internship at **IIION SMART TECH PRIVATE LIMITED** from **2nd June, 2025 to 2nd September, 2025**. Throughout his internship, Mohd demonstrated excellent skills and a strong grasp of both frontend and backend development.

He made significant contributions to application development, optimizing code quality, and resolving complex issues efficiently. Mohd's dedication, proactive learning attitude, and problem-solving skills greatly benefited our team and projects.

I am confident that the experience and skills he gained during this period provide a solid foundation for his future career as a software developer. Mohd would be a valuable asset to any team or organization.

Please feel free to contact me for any further information.

Sincerely,

Rahul Choudhary,
Founder & CEO, IIION

Empowering businesses with digital solutions, including web development, SEO, and custom web solutions.

Phone: +91 9599343193, Email: heyitsmechoudhary@gmail.com, Website: www.iiion.com

Address: 109, Mukand nagar, Hapur road, Ghaziabad, India